TITLE 40-8 UCA 1953
GENERAL RULES AND REGULATIONS
RULES OF PRACTICE AND PROCEDURE

MINE Silver Creek Tailings	MINE PLAN DATE ADRIL 2, 1981
ACT/ / COUNTY SOMMIT	DATE RECEIVED ADRI 9,1981
COMPANY REPRESENTATIVE Macuin P. Barnes	DOGM LEAD REVIEWER has Spences
C Line C to La Minaria Tax	

CITATION	REGULATION State Mining Inc.	INCLUDED IN PLAN	ADEQUATE	COMMENTS
	LEGAL, FINANCIAL			
M-3/MR 1/1.	Name of Applicant	X	X	Silver State Mining, Inc
M-3/MR 1/2.	Address	X	X	444 S State # 305 SIC 8411
	Permanent	X	X)/ · · · · · · · · · · · · · · · · · · ·
	Temporary	X	X	11
M-3/MR 1/3.	Company Representative	×	×	
	Name	X	*	MARVIN P. Burnes
	Title	×	×	Gen. Mar
M-3/MR 1/4.	Address	×	×	445. State S.C.
	Office Phone	×	X	363-1751
M-3/MR 1/5.	Location			
	County	X	marX	Summit
	Township/Range/Section	X	C S.10 Too	
M-3/MR 1/6.	Name of Mine	×	X	Silver Creek Tailings
M-3/MR 1/7.	. Mineral to be Mined	×	× '	Swer Gold? other?
M-3/MR 1/8.	Other Approvals/Listed	X	X	. Mone other
M-3/MR 1/9.	Owners of Record of Land Affected	X	map	
M-3/MR 1/10.	Owners of Record of Minerals to be Mined	X	map	
M-3/MR 1/11.	Owners of Record of all Other Minerals	X	map	

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	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
CITATION M-3/MR 1/11a.	Notification of Other Owners in Writing	×	corperat	ys
M-3/MR 1/12.	Legal Right to Enter & Conduct Operations	×	drases with	
M-3/MR 1/13.	Acreage 1. Operation Area	X	W. Carlotte	220
	2. Access Road or Haulways 3. Drainage System 4. Total Land Affected	X	18 page	220
M-3/MR 1/14.	Principal Executives, Officer & Partners Name Title Address	× × ×	× ×	Marvin X. Sudd. Hows W. Rusmussen Marvin P. Barnes.
M-3/MR 1/15.	Previous Notice of Intention Withdrawn	X	X	No zontu
M-3/MR 1/16.	Signed Confidentiality	X	C	Mining Sequence: vol
M-3(1) M(3)(1)(a) M(3)(1)(b)	MAPS AND PLANS True Copy Map or Plat Land Affected Delineation Within Land Affected Existing Mine Areas	× ×	ok C	Location Map Gent. Layout Silver tailings incomplete Layoutarea Tailings Map Plant Site
	Active Abandoned (prior to May, 1975) Boundaries of Surface Properties Names of Surface Owners Names of Mineral Owners	* * * *	X	Location Marp

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
1-2	"Land Affected means the surface and subsurface of an area within the state where mining operations are being or will be conducted, including, but not limited to: on-site private ways, roads, and railroad lines appurtenant to any such area; land excavations; exploration sites; drill sites or workings; refuse banks or spoil piles; evaporation or settling ponds; leaching dumps; placer areas; tailings ponds or dumps; work parking, storage, or waste discharge areas; areas in which structures, facilities, equipment, machines, tools or other materials or property which result from or are used in such operations, are situated. All lands shall be excluded that would be otherwise includable as land affected but which have been reclaimed in accordance with an approved plan or otherwise, as may be approved by the Board, and lands in which mining operations have ceased prior to July 1, 1977."			Road Estween Tarlings & Plant Site, - County Roa areage Surjace area Lead 50.8 acres 132.8 acres 132.8 acres 183.6 actually disturbed applicant da spoacres
M-3(1)(c) M6	"All maps and plans prepared for submission with the Notice of Intention to Commence Mining			Stocking shem. Snow how turlings well be removed

DOGM LEAD REVIEWER MINE INCLUDED COMMENTS ADEQUATE IN PLAN REGULATION CITATION Capplicent should scale and detail to show topographic M-3(1)(c)features and clearly indicate details M6 (continued) of the proposed operations in accordance with Rule M-3. A color code, or other legend, shall be used in preparing all maps to clearly indicate surface features of the land affected." M-3(1)(d)Names and Locations Lakes, Rivers, Streams, Creeks - need to show nome creek Roads. Buildings Active. Abandoned Facilities Transmissions Lines (within 500 feet) Med to Show drainage form the leaching M-3(1)(e)Drainage Plan Overburden, Topsoil, Waste Stockpiles Directional Flow cerea and shew Constructed Drainways, Diversions, Berms Receiving Waters that ereck is M-3(1)(f)Drill Holes Location Status Depths and Thickness Water Bearing Strata Mineral Deposits Toxic Materials Revegetation Materials (topsoil) Locations of Disposal and Stockpile Areas M-3(1)(g)Topsoil Storage Overburden Materials non toxic MR-2-9

Waste, Tailings, Rejected Materials -

Discharge Points, Water Effluents

Tailings-Ponds

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
	EFFLUENT CONTROL			
M-10/11	Methods for Controlling Sediment			
M(3)(3)(11)	"Sediment ControlMining operations shall be conducted in a manner such that sediment from areas disturbed in mining or reclamation activities is adequately controlled. The degree of sediment control shall be appropriate for the site-specific and regional conditions of topography, soil, drainage, water quality, or other characteristics."	re)		Protect Puc from of top.
1–3(1)(h)	Description of Water to be Disposed Expected Acid or Salt Content Expected Toxicity Expected Impact on Downstream Waters Description of Discharge Permits			Mondoung Plen to make sure! Sodum lyande
1-3(3)	OPERATION PLAN/SITE CONSTRUCTION			
M-3(3)/MR 1-7 MR 2-7	Mining Method General Details If Sedimentary Deposit Seam Thickness Dip Outcrop			Exprocessing need expension an hour portained will be removed - put back
MR 2-11(1)	Mining Sequence Drain, 1500 ds day scrops Smolycas Stack Sleach Construction and Maintenance of Access Roads	- Stack 15	new	ned seguence.
IR 2-11(b)	Construction and Maintenance of Access Roads Procedures Cross-section	Line Control		hed segunce. Louty Road: erces loop only

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MINE	The second of th	

	DEGIN ARTON	INCLUDED IN PLAN	ADEQUATE	COMMENTS
CITATION	REGULATION			
MR 2-11(c)	Site Preparation Trees Brush		C	then where?
1-3(2)c				
MR 2-11(d)	Topsoil, Root Growth, Medium			I I wariels
MR-2/11(a)	Methods for Removal Amounts of Topsoil Removed Methods of Topsoil Protection			then where? 611-in spoils area or plant area?
M-10(14)	"Soils—Except where slope or rocky rocky terrain make it impossible, all surficial materials, suitable as a growth medium, prior to any major excavation, shall be removed, segregated, and stockpiled according to its ability to support vegetation as determined by soil analysis and/or practical revegetation experience. The stockpiles shall be protected in such a manner as to minimize or prevent wind and water erosion, unnecessary compaction, and contamination by undesirable materials. Redistribution and surficial material after final grading shall be accomplished in such a manner as to promote revegetation success."			Pur ses un de ?.
M-3(2)c MR 2-11(e)	Disturbed and Excess Materials Tailings, Waste and Reject Handling Method of Placement and Containment Stability and Erosion Control Overburden		adduss	- need
	Method of Placement and Containment Stability and Erosion Control			

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
MR-2/10.	Determination as Toxic, Acid, Alkali Testing Procedure and Results			is loverity is there good bubity of reading creek.
M-2 K(6)	"Toxic means any chemical or biological or adverse characteristic of the material involved which could reasonable be expect to negatively affect ecological or hydrological systems or could be hazardous to the public safety and welfare."			of reaching ereck. what other industrial whereals mixed? Sodium Counide
M-10(6)	"Toxic Materials—All toxic or potentially toxic material, as defined by Rule M-2(k), shall be safely removed from the site or left in an isolated condition such that solid, liquid or gaseous toxic emissions to the environment are reasonably eliminated or controlled. Such isolation practices may inlude, but not be limited to, burial, subsurface injection, chemical precipitation or neutralization, and filtering. All appropriate regulations of the Division of Health must be complied with as well as Federal regulations."			to sprintle socium copanide leachate over 28 acres. 1, applicant should unustigate 50-100, PI unustigate for storm you event for storm leachate will reach stream
M-3(2)(c) MR-2/11(e)	Method of Placement and Containment Stability and Erosion Control			of leachate following bureal. 3. What will applicant do with salium ayanide following

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-3(2)	RECLAMATION PLAN			
M-10	"The following reclamation standards are established where applicable for all work or activity required to be performed in accordance with reclamation plans approved subsequent to June 1, 1978. Mine workings abandoned prior to May, 1975, need not be reclaimed unless said workings are utilized for subsequent operations. Areas on which these standards are proposed to be non-applicable will be designated on the maps submitted			
	by this operator in accordance with Rule M-6, and may be shown on supplementary ground or air photographs. Said standards shall apply to all operators covered by a mining and reclamation plan and variances to all portions herein will be considered on a site-specific basis by the Division and/or Board."			
M-2i	"Reclamation means actions peformed during or after mining operations to shape, stabilize, revegetate, or otherwise treat the land affected in order to achieve a safe, stable, ecological condition and use which will be consistent with local environmental conditions."			

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-3(2)/MR 2,3 M-3(2)(a) M-3(2)(a) M-3(2)(b)	Land Uses Prior Land Uses Current Uses Potential Uses			grezing
M-10(1)	"Land UseThe operator shall abandon the area affected in a condition which is capable of supporting a postmining use that is compatible with probable land uses."	?	7.0	open space wellow research park "no build zone"? Why no build zone?
M-3(2)/MR 2-4	Existing Vegetation Percent Cover	V	V	V30%
M-3(2)/MR 2-5 M-3(2)/MR 2-6	Existing Soils pH Soil Lab Reference Site Elevation		V	6.8-8.2 some for talings as
	Site Abandonment			
M-10(2)	"Public Safety and WelfareThe operator shall minimize hazards to the public safety and welfare following mining. Methods to minimize hazards shall inloude but not be limited to:			need permit to use county road; by paddle wheel screpers.
	(a) The closing of shafts and tunnels to prevent unauthorized or accidental entry.			

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS	
M-10(2) (continued)	(b) The disposal of trash, scrap metal and wood, unuable buildings extraneous debris and other materials incident to mining in a manner approved by the Division and in accordance with the Rules and Regulations of the Division of Health.				
	(c) The plugging and capping of drill, core or other exploratory holes as set forth in Rule M-3(5).				
	(d) The posting of appropriate warning signs in locations where public access to operations is readily available.				
	(e) The construction of berms, fences and/or barriers above high-walls or other excavations when required by the Division."				
	Structure Removal				
4-10(9)	"Structures and EquipmentAll structures, rail lines, utility connections, equipment, and debris shall be removed from the surface prior to regarding and reclamation unless temporarily abandoned or approved by the Division for a continuing use."				

DOGM LEAD REVIEWER MINE INCLUDED COMMENTS IN PLAN ADEQUATE REGULATION CITATION M-3(2)(d)MR-2(f) Procedures and Methods For Final Stabilization and Regrading Past mining Topography Map De Graduc Regrading Persacing 200' &'s 3:1 Typical Cross-section of Regraded areas MR-2(a) Specific Description of Regrading areas "Shafts and Portals--All shafts M-10(10)and portals shall be covered or closed and all trenches and small pits shall be backfilled or covered when a mine has been abandoned so as to eliminate any safety hazard. Roads and Pads -- On-site roads and pads shall be reclaimed or stabilized when the operator determines that they are no longer needed for mining operations. The reclamation should include provisions for adequate surface drainage protection and unrestricted drainage crossings. When a road or pad is to be turned over to an approved continuing use, as determined by the operator, the operator shall turn over the property with adequate surface drainage, drainage structures, ditching, and in a general condition suitable for the continued use. Highwalls--In strip mining or open pit mining and in open cuts for pads or roadways all such highwalls

shall be reclaimed by backfilling

MINED LAND RECLAMATION -- CHECKLIST MINE DOGM LEAD REVIEWER INCLUDED CITATION REGULATION IN PLAN ADEQUATE COMMENTS H.ghwalls against them or by cutting the wall back to achieve a slope angle of 450 (continued) or less. Where the highwall is composed of solid rock; is designed to be stable utilizing benches, tiebacks, etc.; or, there is insufficient material reasnably available to backfill; or cutting the wall back would result in excessive damage to undisturbed land above the highwall; and taking into consideration suitable alternative safety measures; future land use, etc.; the Division may modify or waive the above requirements." MR-2(e) Description of Maximum Slope Grades "Slopes -- All waste piles, spoil piles, 3:1 and fills shall, if possible, be regraded to a rounded configuration and they shall be sloped to minimize safety hazards and erosion. The angle of slope from the bottom to the top of the pile or fill can be greater than the surrounding terrain provided that the mass stability of the slope is assured and that the erosion of the slope is minimized by measures such as, but not limited to; terracing, surface drainage facilities, cross-slope ripping or scarifying and vegetation. In no

case shall the slope of a pile or fill exceed the angle of repose of

DOGM LEAD REVIEWER MINE INCLUDED ADEQUATE COMMENTS IN PLAN CITATION REGULATION the material or such lessor slope Slopes as required by the Division (continued) considering such factors as: land use, material properties, revegetation potential or erosion control." Description of Determining Stability of MR - 2(1)Reclaimed Fill Material Description of the Method of Drainage Control MR-2(f) need to show Pule M3(2)

Draw lines after

Sociamation
St appears that

applicent will

more dulines to

plant site reduin

on that site. nen for Regraded Areas mB(2) "Drainages--All natural channels and associated flood plains shall not be covered, restricted or rerouted by roads, pads, piles, fills or diversions unless specifically approved by the Division after a suitable hydrologic study and incorporating a sound hydraulic design. All drainage structures, sediment or flood control structures, spoil, ore, waste, fill need cross sections is many of final material and debris must be removed from natural channels and flood plains before an operator abandons the site except where approved by the Division.

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-10(13)	DamsAll major water impounding structures such as tailings, dams, water storage and supply dams, coal waste dams and major sedimentation control dams shall be reclaimed when abandoned so as to be nonimpounding, self-draining, mechanically stable and protected from erosion. ImpoundmentsAll evaporation, tailings and sediment ponds; spoil piles, fills, pads and regraded areas shall be self-draining and nonimpounding when abandoned unless previously approved as an impounding facility by a lawful state or federal agency."			
MR-2(10)	Topsoil Distribution Plans			
Chruma) MR-2(3)	Specific Description of Spreading Topsoil/ Growth Medium Approximate Thickness of Topsoi/Growth Medium Description of Surface Preparation	1	me 2(6)	4"/2"-Plate, compact Discol to 6" Filter fabric?
	Revegetation Plans			
MR-2(1)	Who Will Complete Revegetation? Seed Bed Preparation			

MINE DOGM LEAD REVIEWER INCLUDED CITATION REGULATION IN PLAN ADEQUATE COMMENTS MR - 2(1)Description of Soil Treatments to Aid Revegetation M-10.12 "Practial land treatments may include but not be limited to: scarifying, mulching, fertilization, irrigation, chisel plowing, harrowing and the introduction of soil mycorrhiza. M-10.12Description of Method for Testing Soil to Support Vegetation Fertilization Plans MR-2-2. Mulch Type Saturated shear tests Rate/Acre Show USU/Soils dal. Seeding M-3(2)(e()"A planting program as best calculated to revegetate the land affected. Where there is no original protective cover, an alternate practical procedure should be proposed to minimize or control erosion or siltation. When applicable, the objective in revegetation should be to stabilize the land as quickly as possible after it has been disturbed in sasserch park order to achieve permanent and protective vegetative cover. Non-noxious native plants that

will give a quick, permanent, protective cover and enrich the soil shall be given priority."

DOGM LEAD REVIEWER MINE INCLUDED COMMENTS ADEQUATE IN PLAN CITATION REGULATION MR 2-1 Description of Seeding Method MR 2-3 Justification of Seed Mix M-10(12)"Revegetation--Where possible, a self-sustaining vegetative cover consisting of non-noxious perennial plants shall be established by the operator subsequent to final grading on the entire area affected. Plants shall be a diverse mixture of grasses, shrubs, forbs and where potential for forestation exists, trees; the mixture may include both native and introduced species. Revegetation shall be performed using professionally accepted methods such as seeding, transplanting or propagating by cuttings. no bend gone dest plat on taching? (1) The species selection shall reflect the post-mining land use as set forth in Rule M-10(1) MR-2 3. U. S. Soil Conservation Service MR-2 3. Test Plots Use of Seed Mix MR-2 3. Description of Application Location/Facing (bearing) Rate Per Acre (PLS) Species Mix Per Location senced in restablishment Season to be Planted Maintenance/Monitoring

MINE	DOGM LEAD REVIEWER	

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
MR-2/5.	Description of Irrigation Methods To Establish Vegetation Inspections	V		How well irrigation be done ?
	Frequency Purpose			no mondowing?
	Livestock Grazing Fencing Vegetation Protection	~	2	G00D
M-3(2)(f)	Reclamation Schecule Estimated Time for Construction			
MR-2 8. M-3(2)f	Estimated Time for Interim Reclamation Estimated Duration of Mining Operation A Time Table for the Accomplishment of Each Major Step in Reclamation Plans			
M-5	Reclamation Surety Estimate Estimate Based on Reclamation Plan Cleanup and Removal of Structures Grading and Contouring Stabilization Labor Safety and Fencing Monitoring			
M-3	Standard of Reclamation Success "(2) Revegetation shall be deemed to be accomplished and successful when: (a) Species intented for revegetation			
	by this Rule have achieved a surface cover of at least 70% of the representative vegetative communities surrounding the mine. Surrounding vegetative cover levels shall be			

		INCLUDED		
CITATION	REGULATION	IN PLAN	ADEQUATE	COMMENTS
(a) (continued)	determined by the operator using professionally accepted inventory methods and be approved by the Division.		,	
	(b) The vegetation initiated on the area affected has survived for at least three (3) growing seasons, is evenly distributed, and is not supported by irrigation or continuing soil amendments.			
	(3) Exceptions to Part 12 may be granted by the Division for areas which consist of solid rock outcrops and it is deenstrated by the operator that sufficient surficial soil does not exist for covering said outcrops. Test plots established by the operator in consultation with the Division shall demonstrate after all practical land treatments have been attempted that the revegetation standards are not attainable."			
M-10 MR-8	Commitment to Rule M-10.			